

Apollo G&N Specification
 ND-1002019-D
 TDRR NO. 01766
 Class A Release
 8 April 1963

MARKING

GENERAL SPECIFICATION FOR

Record of Revisions

Revision Letter	TDRR No.	Pages Revised	Approvals		Date
			MIT	NASA	
A	02651	All	WLR	L. J.	5/1/63
B	05941	2 and 3 only.	WLR	L. J.	3/1/64
C	08940	2, 3, 4	WR	W. L.	6/9/64
D	15276	1, 2, 3	WLR	R.	1/19/65

This specification consists of page 1
 to III and I to 5 inclusive.

- e. After marking tetrafluoroethylene, the material shall be sintered for approximately 1 to 2 seconds at 620° to 650°F.

3.7.4 Electrochemical Etching. Unless otherwise specified by the drawing, electrochemical etching shall be used for permanent marking of bare metallic or conductive surfaces in preference to rubber stamping, or where impression stamping is unsuitable. The etchings and the area around them shall be properly cleaned to prevent rust or corrosion.

3.7.5 Electroetching. When specified on the engineering drawing, the electroetch method may be used.

3.7.6 Namesplates. When namesplates are specified by the engineering drawing for marking units and complete assemblies, the markings on the namesplates shall be applied by one of the methods specified herein. Type-impression markings, applied either by hand or machine, shall be the preferred method.

3.7.7 Tagging and Banding. Parts requiring tagging shall be tagged with a wrap-around strip of metal or other suitable material bearing the identification marking. The tag and wire material shall be compatible with the part material. Ferrous tag or wire material shall not be used with nonferrous parts, except brass or bronze. Aluminum tags or wire shall be used with aluminum and magnesium alloy parts.

3.7.7.1 Tagging. Parts that are too small, or otherwise unsuitable for other methods of identification, shall be identified by rubber stamping the tag, container, or envelope.

3.8 WORKMANSHIP. All markings shall be clearly legible and shall be applied in a manner that will insure that the markings do not adversely affect the structural quality, protective finish, or intended use of the part or surface.

4. QUALITY ASSURANCE PROVISIONS

4.1 INSPECTION. All markings shall be visually inspected for legibility, definition, uniformity and conformance to the requirements of this specification.

4.2 REJECTION. Failure to meet any of the requirements of this specification shall be cause for rejection of the part bearing the failed marking.

5. PREPARATION FOR DELIVERY. There are no applicable requirements.

6. NOTES

6.1 PLASTIC INSULATION. Plastic insulation includes at least nylon, irradiated polyethylene, vinyl, acrylics, cellulosics, and tetrafluoroethylene.

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A	02651	All	WLR	WLR	5/1/63
B	05941	2 and 3 only.	WLR	WLR	25/4/64
C	09940	2, 3, 4	WLR	WLR	6/9/64
D	15276	1, 2, 3	WLR	WLR	1/19/65
E	21159	2 & 3	WLR	A. C. METZGER	9/6/65

This specification consists of page 1
 to iii and 1 to 5 inclusive.

MARKING, GENERAL SPECIFICATION FOR

1. SCOPE

1.1 This specification establishes the general marking requirements for parts and assemblies.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

Federal

QQ-T-23

Type, Electric Wire-Flexible Insulating Sheathing
 Marking Machine (Pat. Wire Identification Marking)

Military

MIL-W-373

Varian, Modems and Pagers - Receptor, for the Treatment
 of Communications Electronics and Associated Electrical Equipment

MIL-S-373

Excess, Class, Aircraft Application

Apollo GEN

ND-1002015

Future Development Characteristics, Process Specification

ND-1002012

ND-1002012, Process Specification

ND-1002011

ND-1002011, Marking Machine

ND-1002010

ND-1002010, Marking

ND-1002009

ND-1002009, Marking

9.2 CONFLICTING REQUIREMENTS In the event of conflict between the requirements of the applicable drawings, this specification, and other documents cited herein, resolution must be obtained from the NED Apollo Management Office via the purchaser.

3. REQUIREMENTS

3.1 PREFERENCE. Marking by stamping, silk screening, or stencilling shall be preferred to engraving, electric etching or hand marking. However, all marking shall be suitable for the intended purpose, shall be legible, and shall be as permanent as the item being marked.

3.2 CHARACTERS. Letters shall be without serifs (sans-serifs) such as "Gothic" or "Futura" capitals, and the numerals shall be Arabic. Other characters and hand marking shall be of a similar appearance.

3.2.1 Style. Unless otherwise specified by the drawing, characters except for hand marking shall be Futura Demibold applied as specified by Specification ND 1002122.

3.2.2 Size. Unless otherwise specified, character size shall be proportional to the area available for marking; 1/12 through 1/4-inch characters shall be preferred.

3.3 LOCATION AND TEXT. Unless otherwise specified herein, the text and location of markings shall be as specified by the drawing or order.

3.4. PROCESS LIMITATIONS

3.4.1 Electric Etching. Electric etching shall be used only to mark inherently corrosion resistant metallic materials.

3.4.2 Engraving. Plated surfaces shall not be engraved or etched.

3.4.3 Encapsulation. Encapsulated surfaces shall be silk screened or stencilled.

3.5. PROTECTION OF FINISHED MARKINGS

3.5.1 Ink and Enamel Markings. Applied ink, except epoxy ink, and enamel markings shall be protected with one coat of commercial grade acrylic lacquer or one coat of varnish conforming to Type I of Specification MIL-V-173. A protective coating shall not be used when it will cause flaking of applied markings or have other deleterious effects on the marking or part.

3.6 CABLE AND HARNESS MARKING. Unless otherwise specified by the drawing or order, harness and cable marking shall consist of the harness or cable identification letter or wire list identification letter, as applicable, followed by the conductor number.

3.6.1 Form.

3.6.1.1 Style. Letters shall be without serifs (sans-serifs) such as "Gothic" or "Futura" capitals, and the numerals shall be Arabic. Other characters and hand marking shall be of similar appearance.

3.6.3 Location. Unless otherwise specified by the drawing or order, markings shall be located as follows:

SECRET

CONFIDENTIAL

CONFIDENTIAL

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

CONFIDENTIAL

GENERAL SPECIFICATION FOR

IN (WIRING, Wire Identification, Marking)

IN Associated Electrical Equipment

II. For use in all areas where marking of elastics.

teriously affect the

MATERIAL	TEMPERATURE (°F)
Nylon and Polyethylene	400 to 450
	350 to 375
Acrylics, Polystyrene and	250 to 420
Petrumsorpeethylene	420±0

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the situation.

2. Once the problem is identified, the next step is to analyze the situation and determine the root cause of the problem. This may involve conducting research, interviews, or other forms of data collection.

3. After the root cause has been identified, the next step is to develop a plan of action. This plan should outline the steps that need to be taken to address the problem and achieve the desired outcome.

4. The final step in the process is to implement the plan and monitor the results. This involves putting the plan into action and tracking progress to ensure that the problem is being effectively addressed.

5. Once the problem has been resolved, it is important to evaluate the results and determine if any further action is needed. This may involve conducting a post-mortem analysis or other forms of evaluation.

6. The final step in the process is to document the results and share the findings with others. This can help to prevent similar problems from occurring in the future.

7. The final step in the process is to review the entire process and make any necessary adjustments. This can help to improve the effectiveness of the process in the future.

8. The final step in the process is to celebrate the success of the project and recognize the contributions of all team members.

9. The final step in the process is to reflect on the experience and learn from it. This can help to improve the organization's overall performance and resilience.

10. The final step in the process is to continue to monitor the situation and be prepared to respond to any future challenges.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations

$$\begin{aligned} \frac{dx}{dt} &= f(x, y, z, t) \\ \frac{dy}{dt} &= g(x, y, z, t) \\ \frac{dz}{dt} &= h(x, y, z, t) \end{aligned}$$

where f, g, h are continuous functions of x, y, z, t and satisfy the Lipschitz condition.

It is shown that if the functions f, g, h are bounded and the initial conditions are given at a fixed time t_0 , then the system has a unique solution in a neighborhood of t_0 .

The second part of the paper is devoted to the study of the stability of the solutions of the system of equations.

It is shown that if the functions f, g, h are bounded and the initial conditions are given at a fixed time t_0 , then the system has a unique solution in a neighborhood of t_0 .

The third part of the paper is devoted to the study of the stability of the solutions of the system of equations.

It is shown that if the functions f, g, h are bounded and the initial conditions are given at a fixed time t_0 , then the system has a unique solution in a neighborhood of t_0 .

The fourth part of the paper is devoted to the study of the stability of the solutions of the system of equations.

It is shown that if the functions f, g, h are bounded and the initial conditions are given at a fixed time t_0 , then the system has a unique solution in a neighborhood of t_0 .

The fifth part of the paper is devoted to the study of the stability of the solutions of the system of equations.

Class _____
 Date _____

MARKING

GENERAL SPECIFICATION FOR

MARKING			MARKING		REMARKS
NO.	DESCRIPTION	UNIT	MARKING	MARKING	
1	1. MARKING	1. MARKING	1. MARKING	1. MARKING	1. MARKING
2	2. MARKING	2. MARKING	2. MARKING	2. MARKING	2. MARKING
3	3. MARKING	3. MARKING	3. MARKING	3. MARKING	3. MARKING
4	4. MARKING	4. MARKING	4. MARKING	4. MARKING	4. MARKING
5	5. MARKING	5. MARKING	5. MARKING	5. MARKING	5. MARKING
6	6. MARKING	6. MARKING	6. MARKING	6. MARKING	6. MARKING
7	7. MARKING	7. MARKING	7. MARKING	7. MARKING	7. MARKING
8	8. MARKING	8. MARKING	8. MARKING	8. MARKING	8. MARKING
9	9. MARKING	9. MARKING	9. MARKING	9. MARKING	9. MARKING
10	10. MARKING	10. MARKING	10. MARKING	10. MARKING	10. MARKING

1. The first section of the document describes the overall system architecture and the various components that make up the system. This includes a detailed description of the hardware and software components, as well as the interconnections between them. The second section of the document describes the system's performance characteristics, including its throughput, latency, and reliability. This section also includes a discussion of the system's scalability and its ability to handle increasing workloads. The third section of the document describes the system's security features, including its authentication and authorization mechanisms, its data encryption capabilities, and its logging and auditing capabilities. The fourth section of the document describes the system's deployment and maintenance requirements, including its installation and configuration procedures, its backup and recovery procedures, and its monitoring and troubleshooting procedures. The fifth section of the document describes the system's testing and validation procedures, including its unit testing, integration testing, and system testing procedures. The sixth section of the document describes the system's documentation and training requirements, including its user manuals, its technical manuals, and its training materials. The seventh section of the document describes the system's support and maintenance requirements, including its warranty, its service level agreement, and its support procedures. The eighth section of the document describes the system's future development plans, including its planned enhancements, its planned new features, and its planned new versions. The ninth section of the document describes the system's legal and regulatory requirements, including its compliance with applicable laws and regulations, its intellectual property rights, and its privacy policy. The tenth section of the document describes the system's conclusion and final remarks, including a summary of the system's key features and a statement of the system's overall value.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the transparency and accountability of the organization. This section also outlines the various methods used to collect and analyze data, ensuring that the information is reliable and up-to-date.

2. The second part of the document focuses on the implementation of the proposed changes. It details the steps involved in the rollout process, from initial planning to final execution. This section also addresses potential challenges and provides strategies to overcome them, ensuring a smooth transition to the new system.

3. The third part of the document discusses the ongoing monitoring and evaluation of the project. It highlights the need for continuous communication and collaboration between all stakeholders involved. This section also provides a timeline for the project, indicating key milestones and deadlines.

4. The fourth part of the document concludes with a summary of the findings and recommendations. It reiterates the importance of the project and the need for continued support and resources. This section also provides a final overview of the project's goals and objectives, ensuring that all parties are aligned and committed to the success of the initiative.

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. It is a very important document, as it contains the President's annual message to Congress. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

2. The second part of the document is a letter from the Secretary of the Treasury to the President, dated January 10, 1862. It is a very important document, as it contains the Secretary's report to the President on the state of the Treasury. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

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4. The fourth part of the document is a letter from the Secretary of the Treasury to the President, dated January 10, 1862. It is a very important document, as it contains the Secretary's report to the President on the state of the Treasury. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

The following table gives the recommended plating temperatures for various electrolytes. The temperatures are given in degrees Fahrenheit and degrees Celsius. The temperatures are for the electrolyte and not for the work. The temperatures are for the electrolyte and not for the work. The temperatures are for the electrolyte and not for the work.

RECOMMENDED PLATING TEMPERATURES

Electrolyte	Temperature (°F)	Temperature (°C)
Cadmium	150-160	65-70
Copper	150-160	65-70
Gold	150-160	65-70
Iron	150-160	65-70
Nickel	150-160	65-70
Palladium	150-160	65-70
Platinum	150-160	65-70
Rhodium	150-160	65-70
Silver	150-160	65-70
Tin	150-160	65-70
Zinc	150-160	65-70

[illegible]



1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

3.4 Process Limitations

3.4.1 Electric Etching. Electric etching shall be used only to mark inherently corrosion resistant metallic materials.

3.4.2 Engraving. Plated surfaces shall not be engraved or etched.

3.4.3 Encapsulation. Encapsulated surfaces shall be silk screened or stenciled.

3.5 Protection of Finished Markings

3.5.1 Airborne Applications

3.5.1.1 Ink per SUD 1810830: overcoating per MIL-V-173 type I is required.

3.5.1.2 Ink per SUD's 1808071 and 1818545. No coating is required.

3.5.1.3 Other Inks (SCEVA). The coatings shall be suitable for the purpose intended, shall not cause flaking of applied markings or have other deleterious effects on the markings or the part. An acrylic lacquer should not be used.

3.5.2 Ground Support Applications. The coating shall be suitable for the purpose intended.

3.6 Cable and Harness Marking. Unless otherwise specified by the drawing or order, harness and cable marking shall consist of the harness or cable identification letter or wire list identification letter, as applicable, followed by the conductor number.

3.6.1 Form

3.6.1.1 Style. Letters shall be without serifs (sans-serif) such as "Gothic" or "Futura" capitals, and the numerals shall be Arabic. Other characters and hand marking shall be of similar appearance.

3.6.1.2 Height. Markings shall be not less than 3/64 inch in height.

3.6.2 Color. Markings shall be black except when black does not contrast with the surface being marked, in which case the marking color shall be white or yellow. In addition, green may be used for ground support equipment.

3.6.3 Location. Unless otherwise specified by the drawing or order, markings shall be located as follows:

Apollo Gun Specification
 ND1002019 L
 TDRR NO. 01700
 Class A Release
 8 April 1963

MARKING

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			AC	NASA	
A	02651	All	W/H	h	5/1/63
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E	21259	2 & 3	W/H	A. C. METZGER	4/1/65
	25673	2, 3, 4, 5, 6	W/H	A. C. METZGER	1/24/65
G	29180	2	MGM	---	5/26/65
H	31781	3-6 was 6 pages now 8 pages	MGM EA	ACM	11/3/66
J	33152	3	MGM EA	ACM	3-2-67
K	35873	1, 4-9: was 8 pages, now 9 pages	MGM EA	---	3/13/65
L	37595	3, 4	MGM EA	---	5/19/69

This specification consists of page 1 to iii and 1 to 9 inclusive.

